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# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/16/2010

Ryan, Mason & Lewis, LLP 90 Forest Avenue Locust Valley, NY 11560

EXAMINER				
LIU, BEN H				
ART UNIT	PAPER NUMBER			
2464				

DATE MAILED: 03/16/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,239	03/12/2004	David Allen Brown	9-2	7551

TITLE OF INVENTION: PROCESSOR HAVING SPLIT TRANSMIT AND RECEIVE MEDIA ACCESS CONTROLLER WITH REDUCED COMPLEXITY INTERFACE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificate	correspondence including below or directed oth tions.	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of many specifying a new corres	naintenance fees woondence address;	rill be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDI	Fee(	s) Transmittal. Thi rs. Each additional	s certif I paper	icate cannot be used f	r domestic mailings of the or any other accompanying nt or formal drawing, must		
Ryan, Mason & Lewis, LLP 90 Forest Avenue Locust Valley, NY 11560			I her State addr trans	eby certify that thi	is Fee(	of Mailing or Transı s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the di	nission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/799,239 FITLE OF INVENTIC COMPLEXITY INTERF		VING SPLIT TRANS!	David Allen Brown MIT AND RECEIVE M	EDIA ACCESS	CONT	9-2 ROLLER WITH RI	7551 EDUCED
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	06/16/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
LIU, B	BEN H	2464	370-395520				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is identi h in 37 CFR 3.11. Comp	" Indication form ted. Use of a Customer A TO BE PRINTED ON "	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be a tree part of the patent of the pat	ely, e firm (having as a gent) and the nameneys or agents. If in printed.  e) tent. If an assignessignment.	membes of upono name	er a 2p to lee is 3	ocument has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent): $\Box$	Individual 🖵 Co	rporati	on or other private gro	up entity 🗖 Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
a. Applicant claim	<b>tus</b> (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no long				
NOTE: The Issue Fee and interest as shown by the I	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than the Office.	e applicant; a regi	stered a	attorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name	e						
This collection of inform an application. Confident submitting the completed this form and/or suggesti	ation is required by 37 C tiality is governed by 35 I application form to the ions for reducing this but irginia 22313-1450 DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR U.SPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or re 1.14. This collection is estived epending upon the indiving the collection office COMPLETED FORMS TO	etain a benefit by the mated to take 12 m dual case. Any co r, U.S. Patent and D.THIS ADDRESS	ne publ ninutes mment Traden	ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa of TO: Commissioner	by the USPTO to process) g gathering, preparing, and ne you require to complete urtment of Commerce, P.O. for Patents P.O. Box 1450

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,239 03/12/2004		David Allen Brown	9-2 7551	
75	90 03/16/2010		EXAM	INER
Ryan, Mason & I	Lewis, LLP		LIU, E	EN H
90 Forest Avenue			ART UNIT	PAPER NUMBER
Locust Valley, NY	11560		2464	
			DATE MAILED: 03/16/201	0

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 848 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 848 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/799,239	BROWN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	DENILI IIII	2464	
	BEN H. LIU	2464	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu <b>GHTS.</b> This application is s	this application. If not included inication will be mailed in due co	l ourse. <b>THIS</b>
1. This communication is responsive to <u>28 October, 2009</u> .			
2. The allowed claim(s) is/are <u>1-22</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the:	nder 35 U.S.C. § 119(a)-(d)	or (f).	
1. ☐ Certified copies of the priority documents have	been received.		
2. ☐ Certified copies of the priority documents have		n No	
3. Copies of the certified copies of the priority do	cuments have been received	d in this national stage application	on from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requ	irements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Reviev	v ( PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ack) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			te the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of In	formal Patent Application	
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. ☐ Examiner's	Mail Date Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allow	ance
	9.  Other	_•	

#### **DETAILED ACTION**

### Response to Amendment

- 1. This is in response to an response filed on October 28<sup>th</sup>, 2009.
- 2. No claims have been amended.
- 3. No claims have been cancelled.
- 4. No claims have been added.
- 5. Claims 1-22 are currently pending.

## Reasons for Allowance

6. The following is an examiner's statement of reasons for allowance:

For independent claim 1, the prior art fails to show alone or in combination a processor comprising a split transmit and receive media access controller having a transmit unit and a receive unit physically separated from one another wherein the first and second split transmit and receive media access controllers have respective distinct addresses encoded by particular values of information bits sent over the interface and the processor decodes said information bits so as to distinguish a first signal sent between the transmit and receive units of the first split transmit and receive media access controller from a second signal sent between the transmit and receive units of the second split transmit and receive media access controller.

The prior art of Amit (U.S. Patent 7,197,045) discloses a first integrated circuit containing multiple MAC receivers and a second integrated circuit containing multiple MAC transmitters (see figures 4-6). The prior art of Stark et al. (U.S. Patent 6,963,535) disclose a

Art Unit: 2464

MAC bus interface that multiplexes signals from a plurality of MAC entities (see figures 3, 8, and 9). However, Amit and Stark et al., alone or in combination, fail to specifically disclose that the first and second split transmit and receive media access controllers have respective distinct addresses encoded by particular values of information bits sent over the interface and the processor decodes said information bits so as to distinguish a first signal sent between the transmit and receive units of the first split transmit and receive media access controller from a second signal sent between the transmit and receive units of the second split transmit and receive media access controller. For the reasons provided above, claim 1 is allowed. Independent claims 17-19 are allowed for similar reasons. Dependent claims 2-16 and 20-22 are allowable because they depend on the allowed claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BEN H. LIU whose telephone number is (571)270-3118. The examiner can normally be reached on 9:00AM to 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571)272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2464

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ricky Ngo/ Supervisory Patent Examiner, Art Unit 2464

BL